



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

Asap

RBW109-3401-70-115
Job Sheet R194622



Part No: RBW109-3401-70-115

Job Qty: 1 pcs

Part Name: Rotor Brake Adapter Ring Nut Remove/Install Tools



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 5/6/19

Job Tracking No:

Due Date: 5/13/19

Created By: Linda Lacelle

Type: Rework

Description:

Note: DWG RBW109-3401-70-115 Rev 1 IPP Rev. A 19.05.06 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier	DAS Sign-off
					Setup Hrs	Run Hrs		
510	Small Fab	1 pcs	5/13/19	5/13/19	0.00	0.04	Small Fab - 1	30 MAY 9
520	Handfinish - 7-1-BeadBlast-B4B	1 pcs	5/13/19	5/13/19	0.00	0.10	Handfinish - 7 - 1 - B4B Handfinish - 7 - 2 - B4B	119-89 14-5-7
530	Outsource - 3 - Cadplate	1 pcs	5/13/19	5/13/19			GRO002-VC	2019-05-08
540	Packaging 2-1 - Receive - B4B	1 pcs	5/13/19	5/13/19	0.00	0.00	Packaging 2 - 1 - B4B Packaging 2 - 2 - B4B Packaging 2 - 3 - B4B Packaging 2 - 5 - B4B Packaging 2 - 4 - B4B Packaging 2 - 6 - B4B Packaging 2 - 7 - B4B Packaging 2 - 8 - B4B Packaging 2 - 9 - B4B Packaging 2 - 10 - B4B Packaging 2 - 11 - B4B Packaging 2 - 12 - B4B Packaging 2 - 13 - B4B Packaging 2 - 14 - B4B Packaging 2 - 15 - B4B Packaging 2 - 16 - B4B Packaging 2 - 17 - B4B Packaging 2 - 18 - B4B Packaging 2 - 19 - B4B Packaging 2 - 20 - B4B Packaging 2 - 21 - B4B Packaging 2 - 22 - B4B Packaging 2 - 23 - B4B Packaging 2 - 24 - B4B Packaging 2 - 25 - B4B Packaging 2 - 26 - B4B Packaging 2 - 27 - B4B	DP MAY 16 2019

2019



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL : 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S178695



Part: RBW109-3401-70-115

Job No: R194622

Serial No/Batch: S178695

Revision: 1

Inspector:

Exp Date:

Instructions:

Date: 05/07/19

				Packaging 2 - 28 - B4B	
				Packaging 2 - 29 - B4B	
				Packaging 2 - 30 - B4B	
				Packaging 2 - 31 - B4B	
				Packaging 2 - 32 - B4B	
				Packaging 2 - 33 - B4B	
				Packaging 2 - 34 - B4B	
				Packaging 2 - 35 - B4B	
				Packaging 2 - 36 - B4B	
550 QC 6	1 pcs	5/13/19	0.00 0.00	QC 6 - 9	
				QC 6 - 68	
				QC 6 - 61	
				QC 6 - 40	
560 Small Fab - 2 - B4B	1 pcs	5/13/19	0.00 0.05	Small Fab - 1 - B4B	
				Small Fab - 2 - B4B	
				Small Fab - 3 - B4B	
				Small Fab - 4 - B4B	
				Small Fab - 5 - B4B	
				Small Fab - 6 - B4B	
				Small Fab - 7 - B4B	
570 QC 5	1 pcs	5/13/19	0.00 0.00	QC 5 - 10	
				QC 5 - 12	
				QC 5 - 17	
				QC 5 - 18	
				QC 5 - 19	
				QC 5 - 22	
				QC 5 - 24	
				QC 5 - 3	
				QC 5 - 43	
				QC 5 - 49	
				QC 5 - 51	
				QC 5 - 58	
				QC 5 - 68	
				QC 5 - 9	
				QC 5 - 50	
				QC 5 - 30	
				QC 5 - 40	
580 Packaging 3-1 - Stock - B4B	1 pcs	5/13/19	0.00 0.00	Packaging 3 - 1 - B4B	
				Packaging 3 - 2 - B4B	
				Packaging 3 - 3 - B4B	
				Packaging 3 - 4 - B4B	
				Packaging 3 - 5 - B4B	
				Packaging 3 - 6 - B4B	
				Packaging 3 - 7 - B4B	
				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	

MAY 17 2019
DAS 40
9-89

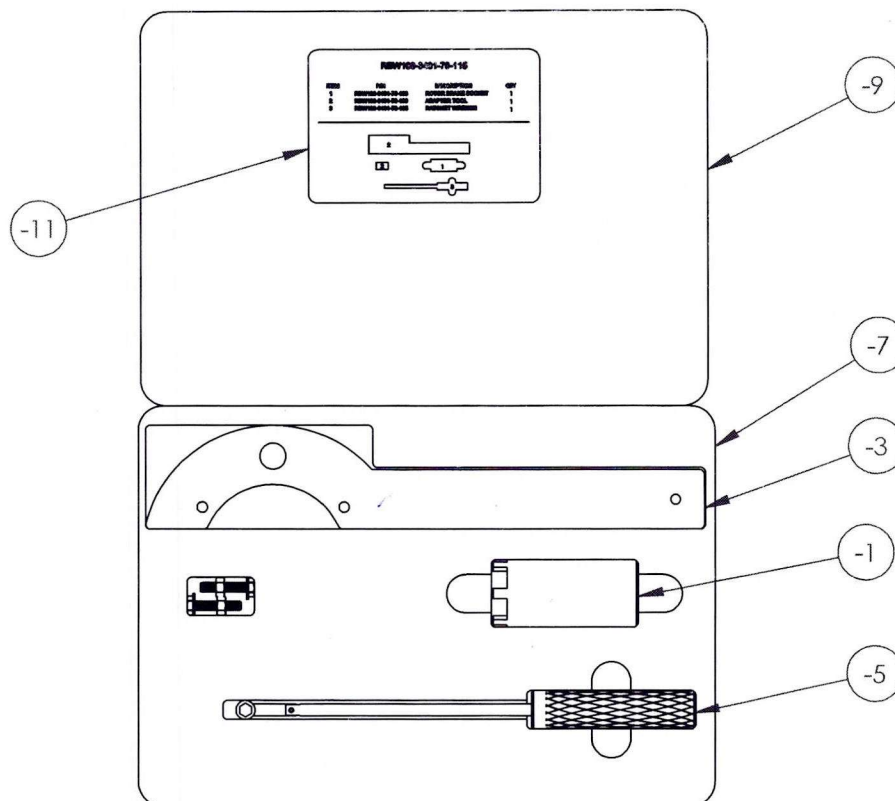
DAS 71
9-89
19-5-16

MAY 17 2019
DAS 68
9-89

				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	MAY 17 2019
				Packaging 3 - 36 - B4B	
590 QC 21 - FG	1 pcs	5/13/19	0.00 0.00	QC 21 - FG - 21	
				QC 21 - FG - 70	
				QC 21 - FG - 53	MAY 17 2019
Part Op 510 - 1-Pick RBW109-3401-70-115P 2-Remove RBW109-3401-70-103 and RBW109-3401-70-109 Descriptions: 520 - Remove surface finish. 530 - -Issue P/O; _____ -Cadmium plating, QQ-P-416F TYPE II, CLASS II -Color; Yellow -Material type; 4140 - Certificate of Conformity is required 560 - Pack case					
Job BOM					
Part / Item	Component Name	Quantity	Operation	Container	
RBW109-3401-70-115p	ROTOR BRACK ADAPTER RING NUT REMOVAL/INSTALL	1 pcs (1 ea)	510-Small Fab	5137671	
RBW109-3401-70-103	Rotor Brake Socket	1 pcs (1 ea)	530-Outsource - 3 - Cadplate	5178089	
RBW109-3401-70-109	Adapter Tool	1 Ea (1 ea)	530-Outsource - 3 - Cadplate	5178090	
Job Allocations					
Operation	Component Part	Required	Inventory	Allocated	
510-Small Fab	RBW109-3401-70-115p	1	1	0	
530-Outsource - 3 - Cadplate	RBW109-3401-70-103	1	1	0	
	RBW109-3401-70-109	1	1	0	
Part Specifications					
Specifications could not be found.					

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
A	CORRECTED MISSING -5 BALLON, & UPDATED DESCRIPTIONS	10/22/2013	JAG	
1	CH'D TITLE WAS ROTOR BRAKE TOOLS IS ROTOR BRAKE ADAPTER RING NUT REMOVAL/INSL. -1, -3, -5 CH'D B/O INFO. -7 ADDED R.13 TO ALL INSIDE CORNERS, ADDED MISSING DIMS. -9 MOVED CUTOUT FOR PLACARD, ADDED MISSING DIMS. -11 CH'D DIM WAS .06 IS (.06), CH'D MAT'L WAS ALUMINUM IS PLASTIC, ADDED NOTE BLACK BACKGROUND W/ WHITE LINES & LETTERS.	5/8/2014	DPD	RJC



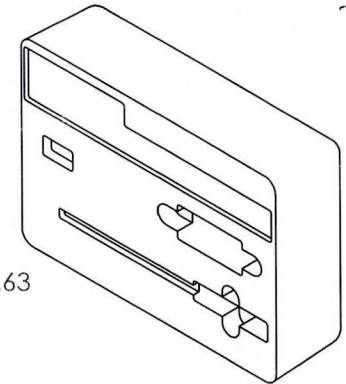
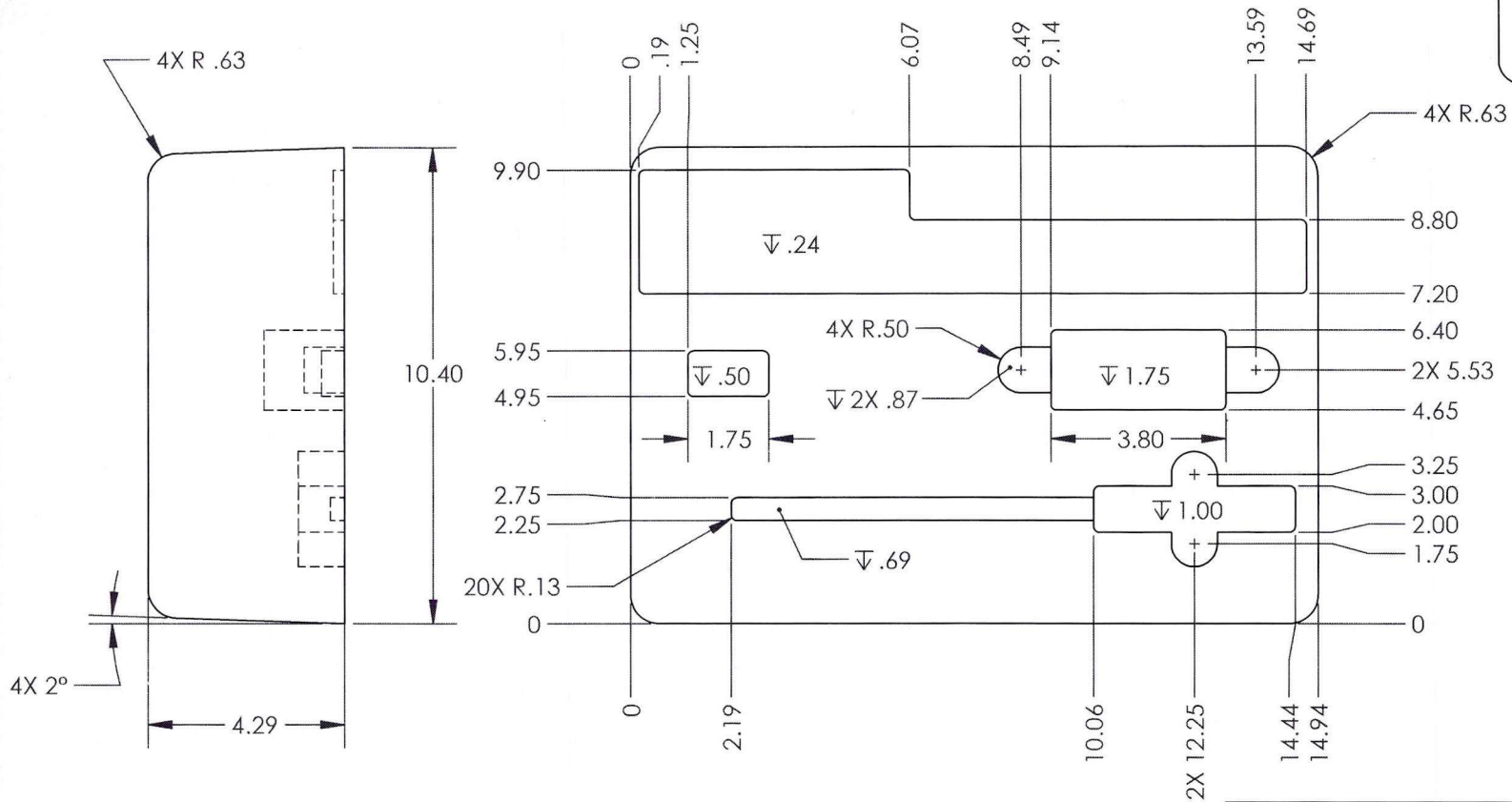
NOTE:
REF. AGUSTA T/N: 109-3401-70-115.

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-1	1	ROTOR BRAKE SOCKET		RBW109-3401-70-103	1
			-3	1	ADAPTER TOOL		RBW109-3401-70-109	1
			-5	1	RATCHET WRENCH		RBW109-3401-70-105	1
		B/O	-7	1	BOTTOM TOOL CUSHION	Y-20, BLACK	4.29 X 10.40 X 14.95	2
		B/O	-9	1	TOP TOOL CUSHION	C200 BLACK, FLAT	1.79 X 10.28 X 14.69	3
			-11	1	PLACARD	PLASTIC	1/16 X 4 X 6	4
		B/O	-13	1	CASE	PLASTIC	PELICAN CASE #APP-1450-E	NS

 RED BARN MACHINE	
TITLE ROTOR BRAKE ADAPTER RING NUT REMOVAL/INSL	
DWG NO. RBW109-3401-70-115	REV 1
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± .5° .X ± .1	DRAWN BY: GILBERT APPROVED <i>D West</i> HEAT TREAT FINISH SPEC 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING USED ON MODEL AW119
SCALE 1:5	DATE 11/14/2011 SHEET 1 OF 4

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REVIEWS			
REV	DESCRIPTION	DATE	INITIAL
1	-7 ADDED R.13 TO ALL INSIDE CORNERS, ADDED MISSING DIMS.	5/8/2014	DPD
			APPROVED
			RJG

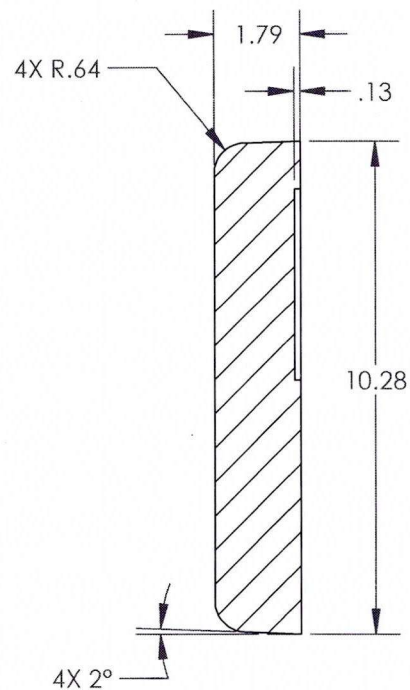


(-7)
BOTTOM TOOL CUSHION

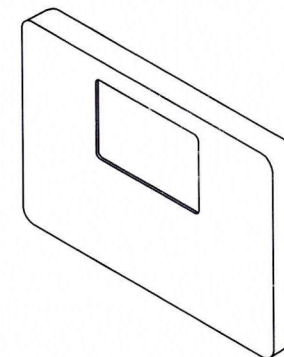
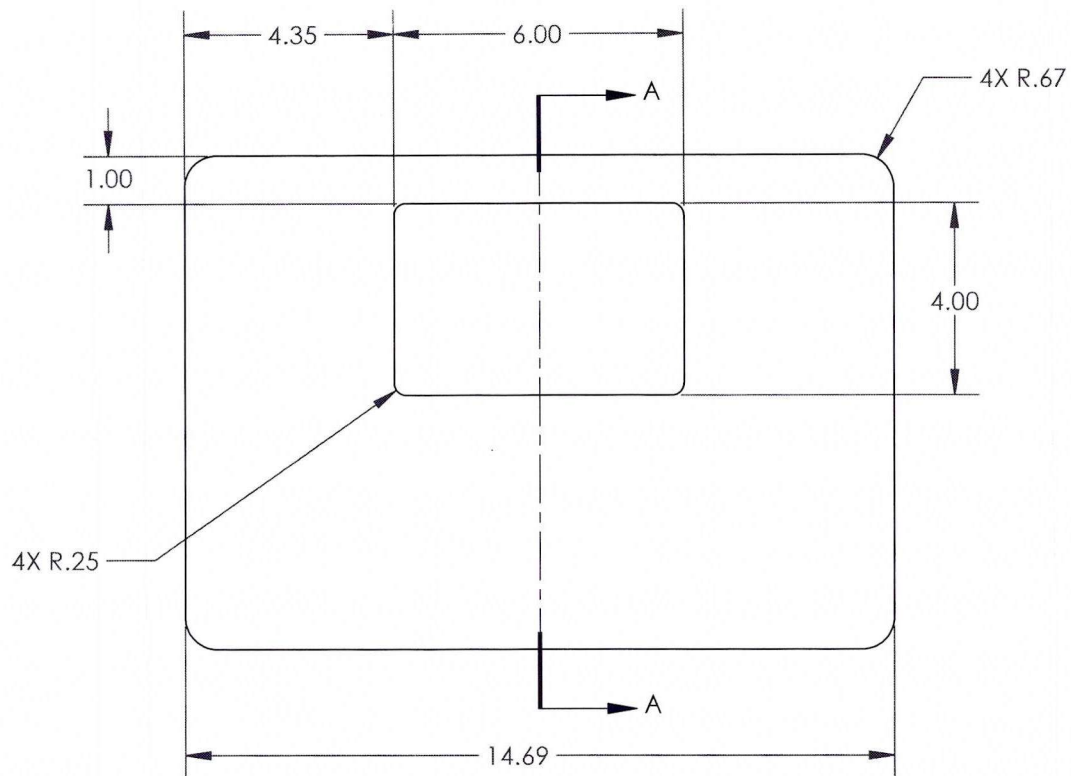
RED BARN MACHINE	
TITLE ROTOR BRAKE ADAPTER RING NUT REMOVAL/INSTL	
DWG NO. RBW109-3401-70-115-7	REV 1
MAT'L Y-20, BLACK	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	APPROVED <i>D. Weil</i> HEAT TREAT FINISH SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL AW119
SCALE 1:4	DATE 11/15/2011
SHEET 2 OF 4	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-9 MOVED CUTOUT FOR PLACARD, ADDED MISSING DIMS.	5/8/2014	DPD	RJC



SECTION A-A

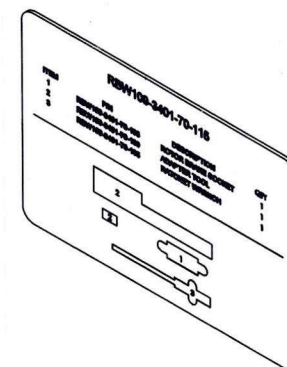
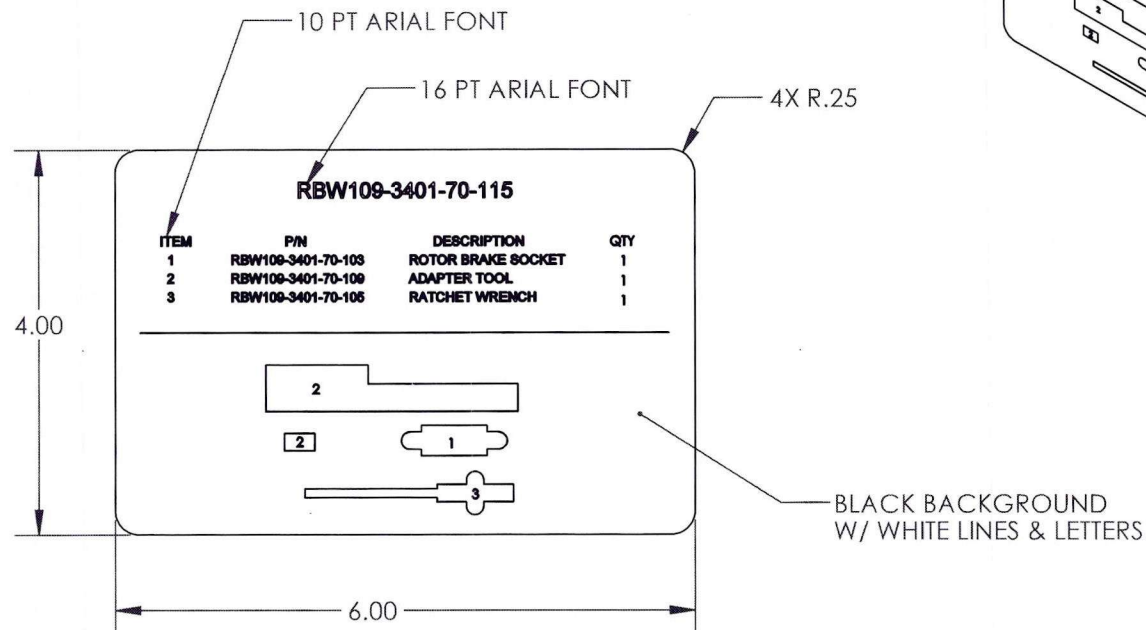
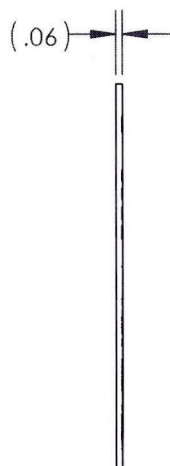


(-9)
TOP TOOL CUSHION

 RED BARN MACHINE	
TITLE ROTOR BRAKE ADAPTER RING NUT REMOVAL/INSTL	
DWG NO. RBW109-3401-70-115-9	REV 1
MAT'L C200 BLACK, FLAT	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	APPROVED <i>D Weil</i>
	HEAT TREAT
	FINISH
	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW119
SCALE 1:4	DATE 11/15/2011 SHEET 3 OF 4

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
A	CH'D DESCRIPTION FROM SOCKET WRECH TO RATCHET WRENCH	10/22/2013	JAG	
1	-11 CH'D DIM WAS .06 IS (.06), CH'D MAT'L WAS ALUMINUM IS PLASTIC, ADDED NOTE BLACK BACKGROUND W/ WHITE LINES & LETTERS.	5/8/2014	DPD	RJC



-11
PLACARD

 RED BARN MACHINE	
TITLE ROTOR BRAKE ADAPTER RING NUT REMOVAL/INSL	
DWG NO. RBW109-3401-70-115-11	REV 1
MAT'L PLASTIC	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW119
SCALE 1:2	DATE 11/15/2011
SHEET 4 OF 4	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043409



Supplier: GRO002-VC
Group Altech
2455 Halpern
St Laurent
QC
H4S 1N9 Canada
Phone: 514-335-3666
Fax: 514-335-3868

Attention: Grenon, Sylvie

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB043409

PO Date: 5/8/19

Due Date: 5/10/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pynt Terms: Net 60

Freight Terms:

Special Comments:

E-MAILED
2019-05-09

Items											
Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	191465	RBT400220	Wrench Assembly -Issue P/O -Cadmium plating, QQ-P416F TYPE II, CLASS II -Color; Yellow - Certificate of Conformity is required	Firmed	-	5/10/19	1 pcs	0 pcs	1 pcs	\$145.833/pcs	\$145.83
Part to be stripped first											
2	R194622	RBW109-3401-70-115	Rotor Brake Adapter Ring Nut Remove/Install Tools -Issue P/O; -Cadmium plating, QQ-P-416F TYPE II, CLASS II -Color; Yellow -Material type; 4140 -Certificate of Conformity is required	Firmed	-	5/10/19	2 pcs	0 pcs	2 pcs	\$58.333/pcs	\$116.67
Grand Total:											\$262.50

DAS
40
8-39



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043409



Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 5/9/19 10:06 AM Dart.Guerin.Kimberley



Certificat de Conformité / Certificate of Compliance

(019077-1)

2455, Rue Halpern | Saint-Laurent | Québec | H4S 1N9
Tel: 514-335-3666 Fax: 514-335-3868
www.groupaltech.com

Bon de Livraison / Packing Slip

019077- 1

Livré à / Ship to

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON, K6A1K7
CANADA
Tel.: 613-632-5200 Fax.:

Client / Customer:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON, K6A1K7
CANADA
BUYER:

Date expédition Ship date		Créé Par Generated By	Transport / No de Compte Courrier / Acc. No.	Bon de commande Client Customer Purchase Order No.				
13-May-2019		Jessie Boisvert		POHB043409				
#Ligne Line#	No. de Série / # Pièce Part Number /Line Item Details Job # / Ref #	Description pièce(s)	CATG. U/M	Comm. /Ordered	Exp/ Shipped	Quantités / Quantities Qté NC/ NC Qty	Qté Scrap/	À venir/ Back Order
1	RBT400220 Rev.	RBT400220 STRIP CAD 01 -CAD YELLOW 500 [CADMIUM YELLOW 500] QQ-P416F type 2, class 2	CADMIUM CH	1	1	0	0	0
2	RBW109-3401-70-115 Rev.	RBW109-3401-70-115 01 -CAD YELLOW 500 [CADMIUM YELLOW 500] CADMIUM PLATTIG,QQ-P 416F TYPE 2, CLASS 2	CADMIUM CH	2	2	0	0	0

RECEIVED

MAY 14 2019

DART AEROSPACE LTD.

RECEIVED
MAY 14 2019
DART AEROSPACE LTD.

DAS
40
9-89

Notes Additionnelles / Additional Notes

1 SMALL BOX

Epaisseur réelle
Actual Thickness

Inspecteur Qualité
Quality Inspector

Réçu par
Received By

Nous certifions que les pièces énumérées ci-dessus ont été traitées en conformité avec votre commande et vos spécifications et rencontrent les exigences.
Notre responsabilité financière et légale ne sera pas supérieure au montant de la facture issue.

We hereby certify that the parts listed above have been process in accordance with your purchase order and specifications and are in conformance with your requirements.
Our financial and legal responsibility will not be higher than the amount of invoice.